Title: "Resolving Link Frame Collisions for a Phone Link Network"
Inventor: Ben Michael   Application No.: 09/538,015   Docket No.: 042390P7283
Blakely, Sokoloff, Taylor & Zafman   303-740-1980

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FIG. 1
PRIOR ART

FIG. 2
PRIOR ART

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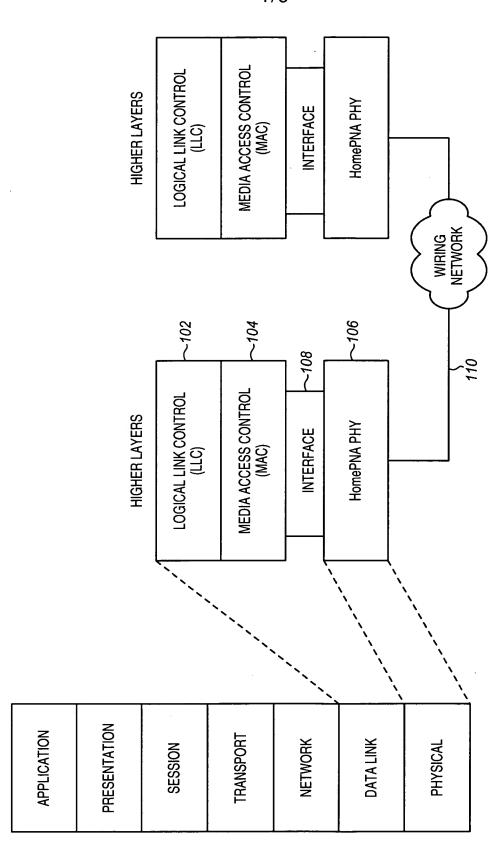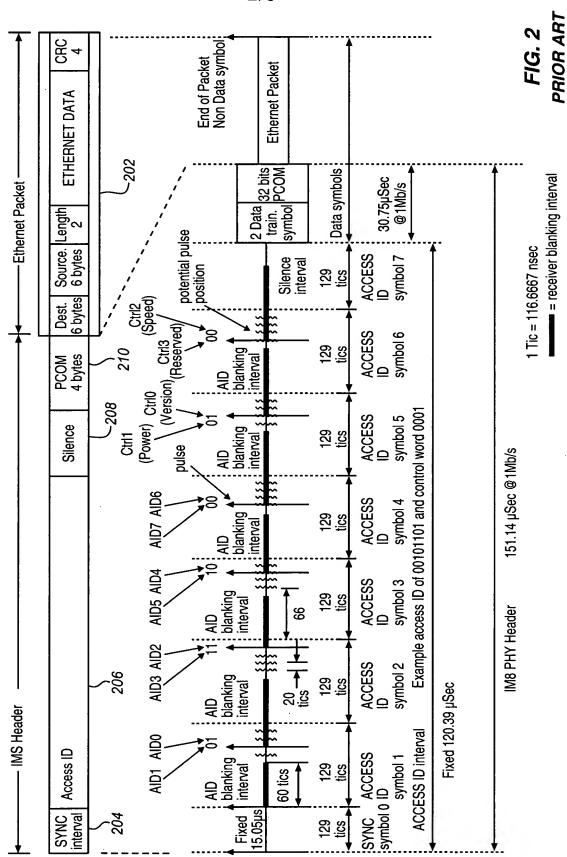Blakely, Sokoloff, Taylor & Zafman   303-740-1980

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WIRING
NETWORK

110

MEDIUM
DEPENDENT
INTERFACE

106

HomePNA
PHY

302

VALID LINK

MAC to
HomePNA PHY
INTERFACE

108

RxD

RxClk

TxD

TxClk

TxEn

CRS

COL

104

MAC

FIG. 3
PRIOR ART

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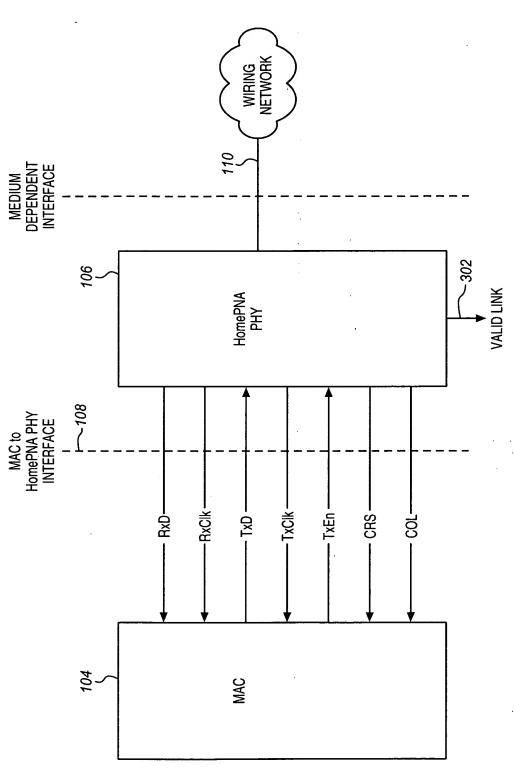Blakely, Sokoloff, Taylor & Zafman 303-740-1980

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FIG. 4

402 — NO Tx FOR LAST 2 SEC ? — NO → ENABLE TxClk ~407

YES

404 — STOP TxClk Tx LINK FRAME

406 — COLLISION ? — NO →

YES

408 — Num_Col = 0

410 — Tx LINK FRAME AFTER IPG

412 — COLLISION ? — NO →

YES

Num_Col = Num_Col + 1 ~414

416 — Num_Col < N ? — YES (→ back to 410)

NO

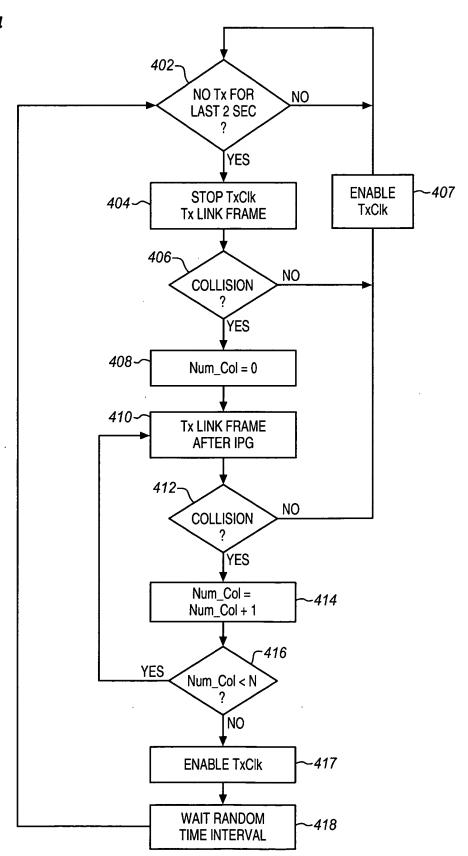ENABLE TxClk ~417

WAIT RANDOM TIME INTERVAL ~418

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FIG. 5